SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

COMMENTS:

SDG <u>06I-0647-01</u> SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete Partial

300 Area 303M Bldg







Cover Page

Report Identification Number:

06I-0647-01

Subcontract Number:

0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist:

Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#:

RC-001 / R303MO J451

Payroll#: 73338

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
13 Feb 2006	J11531	06I05133	NMAM 7300M	G061G01Y	G WIPE
13 Feb 2006	J11532	06I05134	NMAM 7300M	G061G01Y	G WIPE
13 Feb 2006	J11533	06I05135	NMAM 7300M	G061G01Y	G WIPE
13 Feb 2006	J11534	06I05136	NMAM 7300M	G061G01Y	G WIPE

I certify that this electronic image and all hardcopies produced from this image accurately represent the data and are in compliance with the contract specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Phone: (801) 266-7700

FAX: (801) 268-9992

Web Page: www.datachem.com E-mail: lab@datachem.com

Name: Joanna C. Sanchez

Title: Chemist

Date: February 16, 2006



Web Page: www.datachem.com

E-mail: lab@datachem.com



Case Narrative Page

Report Identification Number: 06I-0647-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R303MO J451

Payroll#: 73338

General Set Information: There are 4 samples in set 06I-0647-01 which were analyzed for beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

Sample Preparation: All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

Holding Times: The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.01 ug/sample.

Method Blank Analysis: No beryllium was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Dilution(s): None.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCS and the LCSD was within the control limit of 20%.

Phone: (801) 266-7700

FAX: (801) 268-9992





Case Narrative Page

Replicate Analysis: One sample in this batch was replicated. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: The final results are calculated by the following equation:

Final result for aqueous samples (μ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ($\mu g/L$)

B = Concentration factor from sample preparation

= <u>Final Volume of Digestate (L)</u> Sample

C = Dilution performed at time of analysis

Example Calculation: $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$

Phone: (801) 266-7700

FAX: (801) 268-9992

Web Page: www.datachem.com

E-mail: lab@datachem.com

Miscellaneous Comments: None



Web Page: www.datachem.com

E-mail: lab@datachem.com



Report Page

Report Identification Number: 06I-0647-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R303MO J451

Payroll#: 73338

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sampl		Berylliun μg/m³	n	Air Volume L
J11531	06I05133	15 Feb 2006	< 0.01	U	**		**
J11532	06I05134	15 Feb 2006	< 0.01	U	**		**
J11533	06I05135	15 Feb 2006	< 0.01	U	< 0.10	U	100.
J11534	06I05136	15 Feb 2006	< 0.01	U	< 0.10	U	100.
	0.	01					
R	equired Detect	ion Limit (RDL)					

Phone: (801) 266-7700

FAX: (801) 268-9992

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.





QC Summary Page

Report Identification Number: 06I-0647-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 / R303MO J451

Payroll#: 73338

Batch ID: G061G01Y

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-241336-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
QC-241336-1	LCS	Beryllium	μg/sample	10.9	NA	10.0	109.	NA
QD-241336-1	LCSD	Beryllium	μg/sample	10.7	10.9	10.0	107.	1.61

Phone: (801) 266-7700

FAX: (801) 268-9992

Web Page: www.datachem.com

E-mail: lab@datachem.com

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0

MS, MSD Percent Rec. = ((Result - Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) * 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|)/((MS + MSD)/2.0)) * 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) * 100



COC Page

			CHAIN	CHAIN OF CUSTODY/SAMPLE ANALYSIS REDITEST	SAMPLE	ANALY	SIS REO		ころしてもつ	+	5		
Calcon: Cario Seh. 11		Company Contact Dense A. Pitts an	Company Contact Denoce A. Pints and Heary W. Raday	Raby	Telephone No. 531-1229	2 8	= 4	Project Coordinator Jose H. Kesseer			Data Temanumd	Page 2	
73.5.8 Type of Samole		Sampling Location	Sampling Location 300 Avec. / 203 to 13/ds		SPECIAL INSTRUCTIONS All relevant COAs must be provided.	ovidet	NE	SAFNa. RC-001			7.0	74 40	
B. Bull				Koch ANALVER	Ksosmosy61		, x	Method of Shipmon	n l		í	}	
Date Can	· ·	Wipe San	Pe Moder	RIOSI	HIOSH 7300 BE PECA	783		Sill of Lading/Air Bill No.	Did of Lading/Air Bill No.	Ş			
インナン Willer Swell H	ZABOABITAABAR	8	W.				·	Œ P	A244 1	36/16	١	4797	
Be Be Col	TANKEN MAKES	<	— <u>-</u>									厂	1
Special Handling and/or Storage	r Skarajec	≨×	· WIFE	reprint (c.)	3	£	£	2	2	ž	ž		- , <u>,</u>
		SAMPLE ANALYSES	188		/					/			
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLIME (L) or		11]	Airborne	Bayk	7	3 4	و ا	Air Ca	
311531.	j	2-13-ch	7 2	T3 kg K				-	1	1	200		
11/532.	3	40-11-C	17	Blenk		2 111			25 CO 190	7			
311533.	3	2.13.0L	100	4/1				4 -4		7			
311534	5	2-13-04	100	1 2				×	 				1
1		/				 					9		
									-				
				المنازعة المنازعة				177					
						/		/					
								/		 		 	T^{-}
										/	 /-	1/	
W.T-SH-2M2 (111/29/2005)	ହି	•						1	<u>}</u> .	1	4		7

Phone: (801) 266-7700 FAX: (801) 268-9992 Web Page: www.datachem.com E-mail: lab@datachem.com



COC Page

سرخ او کی علاوا	(Soursand) zuz-Hs-H.JM
	BY MATAZKAN NYME
JO . 21-6 STAG	REVIEWED BY: CAOOL MONORM
	SECLION
HMTI/BTAQ	AMOTAROLAL Received 8 y
L.	AND THE STATE OF T
\$401 1-1540 Amely of bursoid	Settistio Lookshild septem
1.44	mercult Programme State of the
	E STATE OF THE STA
	THILEING products
3401-4140 panel (9) panel (4) panel	ANTI-NIAG Jacophill Jacophill School St. 1985
State 1840 Security Security	AMIT (STAIL)
anti-tro	
BATT-TEST Samuel to transf.	This or the state of the state of the
	Cod Coll State
301/10L	Land of Contract Cont
- CF(1) 20 21 6 MOON DICONTAIL)	10501 JU 71 6 XY 1007
manufalling manufalling	THE LEAVE AND THE PROPERTY OF
A A A A A A A A A A A A A A A A A A A	15 5HHV 1 1 11/1/ 2-14-01 / 1000
11. 1	Ham It with
Semi-state)	SHAIL SOLUTE MEMBER MEDICAL
-SHAI / 90-HI-C //// CJ 1/3/45 28	المالم في المالم في المالم الم
Amit all Marian	MATERIAL COMMET 6/45 AND STREET AND DESCRIPTION
Local copust for 16 5 NV Bldg 2.13-06 1600	00011 20-51-5 Fill B will Soll
OZE MITLYKA LIME	Protection above a series of the Control of the Con
LIE VAVIAZIE KEONEZI	

DataChem Laboratories, Inc. 960 West Levoy Drive Salt Lake City, Utah 84123-2547

Phone: (801) 266-7700

FAX: (801) 268-9992

Web Page: www.datachem.com E-mail: lab@datachem.com

Enter on line below the first Sample Number from Page One:

711231



			CHAIN (F CU	JSTODY/S.	AMPLE	ANALY	SIS RI	EQUEST		<u> </u>			
Collector:	11	Company C Denise A. F	ANALYSIS M			Telephone No. Project Coordina 531-1229 Joan H. Kessner					or Data Turnaround			
Chris Sch. Payroll #: 73338						As must be pr	ovided:		SAF No. RC-001			ہرتد	١ ١٠٠	
Type of Sample:						R303m0 5451 ANALYSIS METHOD (SPECIFIC):			Method of Shipment Federal Express					
Shipped To: Data Ch	 		₹Yes □ No)	7300 F		Ŧ	Bill of Ladi	ig/Air Bill No	947	- 4	792	
POSSIBLE SAMPLE The Record Special Handling and		MAT A - All	MATRIX A - AIR Preservation (i.e., coo WI - WIPE required, etc.) X - OTHER			No	No	No	No	No	No	No	No	
MIA		<u></u> _				1						<u> </u>		
SAMPLE NO.	MATRIX	SAMPLE ANALY	VOLUME (L) or			Ashestos Airborne	Lesd Airborne	Berylliu Airbort			Lead Wipe	Cd Wipe	Cd Airborne	
	 	 	Area 100 cm²	 	" " " " " " " " " " " " " " " " " " " 	 	\ -					1.6		
311531	<u>u</u>	2-13-0L	N/a	131	aK_		e e		X			3		
711233	Wi	2-13-01	11/4	BI	<u>e</u> k		30	\	X					
311533	ωı	2-13-06	100	н	/n				X					
211534	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-5-13-01	100	И	la.				X					
											1=1	17		
								<u> </u>	(Ψ		
					3.18.									
						K				FIELD	SAMP	LE CC	PY	
					-		 				\downarrow	1	1	
		†		-		 		 	_	-	+>	+	#	1
	<u> </u>		<u> </u>		·	<u> </u>	1							

_ · · · •	711	5	31					
-----------	-----	---	----	--	--	--	--	--

	C	HAIN OF CUSTODY/SAN	IPLE ANALYSIS REQUE	ST
			/ USE MILITARY TIME	
Relanguestical By/Nitared		DATE / IIME	Bosonat By Sharet	DATE/IIML
050		2-13-06 1600	Locked colemnet Ro	16 3746 Bldg 2-13-06 1600
Relinguished by graced	binet 6/dg 3746 Lun #16	DATE / TIAN	Reserved By Storot:	G DAIL COM
Sall Med	Goldie Malhan	02-14-06 /1445	RZ Steffler 1.	7. Stell 2.14-06/1445
Manager had By/Same d	_	DATE / IME	Recoval By/Sused	DATE 4 FIME
RZ Steff/	- 1.2 Still	2-14-06 / 1600	Fed Ex	
Birlinger had By trouve		DAIE / PINE	Reserved By/Skered	DAILCHME
	. ,.			
Relanque docul des Sanacol	-	DATE / TIME.	Box of B/Nami	PAIL (IML
Refuggerated Styffere et al.		DATE / FIME	Recursed By-Sinnest	gaf) ziiMi
		J.1.2 - 1		- W W-
Relugarated by Stancil		DATE / TIME	Received By/Sweed:	DAIL/IIM
Relanguardical By Newcol		DATE / TIME	Reserved By Stevent:	DATE / LIME
Relationship of the Steward				
semithalary bi. 244.0		DATE / TIME	Record By Supel:	DATECTIME
		•		
Relinque had By/Special		DATE / LINE	Reserved By Stored.	DATE . DATE
LABORATORY SECTION	Received By	Title	<u> </u>	DATE / TIME
		,	······································	
REVIEWED BY:			DAT	E:
		PRINT/SIGN NAME		